

Receiving Report

Date:

14/8/28

Batch No:

2158/130229

Supplier:

B. A. R. S.

Dart P/O:

2588

Packing Slip: Yes No
 Invoice: Yes No
 Receipt: Cash Cr
 New Supplier Yes No

Release Note Attached: Yes No N/A
 Waybill Attached: Yes No
 Shipment Complete: Yes No N/A
 QC18 Inspection N/A
 Work Order N/A

Discrepancies

| Part Number | Description | Quantity Ordered | Quantity Rec'd | Quantity Short | Quantity Inspected | Quantity Rejected | Comment / NCR Number |
|-------------|-------------|------------------|----------------|----------------|--------------------|-------------------|----------------------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Initials of Receiver

QC12

[Signature]

Production/Admin:

Date

Received/Costing

Initial

Location



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PO REPRINT

Purchase Order ID PO25555

Purchase Order Date 8/27/2014

PO Print Date 8/29/2014

Page Number 1 of 2

Order From :

B/E AEROSPACE INC
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

VU-BEA001

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 305-925-2600

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Ship Via

FedEx Overnight collect

Ship Acct

| Line Nbr | Reference Vendor Part Number Line Comments Delivery Comments | Description/ Mfg ID | Req Date/ Taxable Promise Date | CD | Req. Qty/ Unit of Measure | PO Unit Price | Extended Price |
|-------------|--|------------------------|--------------------------------------|----|---------------------------------|---------------|----------------|
| 1 | MS27039-08-07 | SCREW | 8/29/2014 Yes 8/29/2014 | | 200.00 Each | \$0.13 | \$26.00 |
| Line Total: | | | | | | | \$26.00 |
| 2 | MS27039-1-16 | Screw | 8/29/2014 Yes 8/29/2014 | | 200.00 Each | \$0.15 | \$30.00 |
| Line Total: | | | | | | | \$30.00 |
| 3 | MS20470AD4-4 | Rivet, Universal Head | 8/29/2014 Yes 8/29/2014 | | 5,454.00 Each | \$0.01 | \$57.00 |
| Line Total: | | | | | | | \$57.00 |

8/28

Note:

8/27/2014



B/E Aerospace, Inc.

CONSUMABLES MANAGEMENT

Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.beconsumables.com

Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001

Wire Instructions: B/E Aerospace Consumables Management • JPMorgan Chase Bank New York

ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

HW04RW

PAGE 1

SOLD TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

| | | | | | | | | |
|---|------------------|--|-------------------------------|-------|-----------------|------------|------------------------------|--------|
| ORDER NO. PO25555 | | DATE 08/27/14 | SHIP VIA FEDX INTL P1 COLL | | TERMS NET 45 | | SHIPPING TERMS FOB-CARSON | |
| ITEM NO. | QUANTITY ORDERED | PART NUMBER AND DESCRIPTION | | PRICE | UNIT | BACK ORDER | SHIPPED | AMOUNT |
| 1 | 200 | MS27039-0807 Description SCREW ECCN : 9A991 MFR: LFC INDUSTRIES CTRL#: 2013K19536 LOT#: 52995 LOT QTY: 200 Country of Origin USA <i>These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.</i> | | 0.130 | EA | 0 | 200 | 26.00 |
| FREIGHT ACCT# 15179324-0 TEL# 613-632-3336 | | | | | | | | |
| INVOICE#.....: HW04RW | | | | | | | | |
| ORDER#.....: 97HLA9 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**LFC industries**A Division of RKR Technologies, LTD
manufacturer of precision aerospace fasteners1221 Corporate Dr. W • P. O. Box 5982
Arlington, Texas 76006 (817) 640-1322B/E Aerospace, Inc. - Consumables Management
Self Release. Date: 11-19-13
Signature and Stamp:*Elaine Gruer*

| | |
|-----------------|---|
| SHIPPING METHOD | Fedx FAT |
| PAID | COLLECT <input checked="" type="checkbox"/> |
| ORDER NO | 0MJF71 |
| PART NO | MS27039-0807 ITEM# 1 |
| QUANTITY | 3 |
| WEIGHT | 250000 |
| TOLERANCE | +0-5% |
| DATE DUE | 10-15-2013 |

SHIPPING REPORT

52995

PRODUCTION ORDER # 52995
COUNTRY OF ORIGIN: USA

SHIP

B/E AEROSPACE, INC.
CONSUMABLES MANAGEMENT
9835 N.W. 14TH ST.
MIAMI, FL 33172**COMMENTS**

DFAR 252-225-7009

RETURN OF ANY MERCHANDISE LISTED HEREON WILL NOT
BE ACCEPTED WITHOUT PRIOR AUTHORIZATION**CERTIFICATE OF CONFORMANCE**

THE MATERIALS, PROCESSES AND PARTS FURNISHED WERE PRODUCED IN ACCORDANCE WITH APPLICABLE SPECIFICATION REQUIREMENTS, AND TEST REPORTS INDICATING CONFORMANCE ARE ON FILE SUBJECT TO EXAMINATION. OUR Q.C. INSPECTION SYSTEM CONFORMS TO ISO 9001.

Elaine Gruer

SIGNED

ECCN: EAR99, SCHEDULE B #7318.15.2000

PARTIAL ☐COMPLETE ☒

QTY SHIPPED

250000

QTY CONTAINERS:

35

LBS. PER "M"

3.98812

GROSS WEIGHT

1008.81

PCS USED TO ESTABLISH WT.

50

TARE WEIGHT

36.75

NET WEIGHT

972.06

SHIPPING CLERK:

RLI

DATE

11-19-13

CONSIGNEE SIGNATURE:

DATE

CUSTOMER PACKING SLIP



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: P025555

| LNE# | QUANTITY | U/M | PART-NUMBER | CUST REF# | LOT-NUMBER | MANUFACTURER | CCODE | MFR DATE | EXP DATE |
|------|----------|-----|--------------|-----------|-------------|-------------------|-------|----------|----------|
| 3 | 3 | LB | MS20470AD4-4 | | S131023011L | ALLFAST FASTENING | 53551 | | |


Jason Lewis
Vice President of Quality

08/27/14

ALLFAST

FASTENING SYSTEMS, INC.

P.O.Box 3166 - 15200 Don Julian Road
City Of Industry, California 91745-1098
Phone (626)968-9388 - Fax (626)968-9393
www.allfastinc.com

CERTIFICATE OF CONFORMANCE

DATE: 01/28/2014

CUSTOMER NAME: B/E AEROSPACE

PURCHASE ORDER: 0MYS30

PART NUMBER: MS20470AD4-4

REV: 2

LOT CONTROL NUMBER: S131023011L

MATERIAL LOT NUMBER: S303813

MATERIAL VENDOR: KAISER ALUMINUM FAB. PROD. LLC

CERTIFICATION NUMBER: 000160746

NOMENCLATURE: Solid Rivet

QUANTITY: 480 LB

SHIPPER NUMBER: 99296161525

DATE OF MANUFACTURE: 10/15/2013

HEAT LOT NUMBER: K851476

PROCUREMENT SPECIFICATION: NASM5674 REV. 1

SHEAR STRENGTH REQUIRED: 26,000 PSI MIN.

SHEAR TEST RESULTS: 1: 34,891 PSI 2: 34,300 PSI

3: 32,774 PSI 4: 35,290 PSI 5: 36,096 PSI

6: 33,527 PSI 7: 33,883 PSI 8: 35,378 PSI

9: 34,907 PSI 10:

DIMENSIONAL INSPECTION

SAMPLE SIZE: 50

RESULTS: ACCEPTABLE

ASTM GRAIN SIZE #: 7.5

DRIVEABILITY: ACCEPTABLE

FINISH: MIL-DTL-5541 REV. F, CLASS 1A, GOLD

COMMENTS: ECCN #9A991.

The undersigned hereby certifies that the product(s) supplied herewith were manufactured and inspected in accordance with all applicable drawings and specifications, and conforms to all applicable government and/or customer requirements. All supporting documentation is on file and is available for review upon request.

The aforementioned items were manufactured by Allfast Fastening Systems, Inc at 15200 Don Julian Road, City of Industry, California 91745.

This certification shall not be reproduced, except in full, without written approval of Allfast Fastening Systems, Inc. Recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under federal law.

Country of origin: USA

B/E Aerospace, Inc. - Consumables Management
Self Release

Signature and Stamp: *[Signature]*

Date: 1/28/2014



[Signature]
QUALITY ASSURANCE REPRESENTATIVE

Page 1 of 1

MANUFACTURERS OF AIRCRAFT AND COMMERCIAL FASTENERS

CERTIFIED INSPECTION REPORT AND TEST RESULTS

KAISER ALUMINUM

SEP 27 2013



1547 Helton Drive - Florence, AL 35630

SHIP TO:

ALLFAST FASTENING SYS.INC

370 TURNBULL CANYON ROAD

CITY OF INDUSTRY, CA 91745

SOLD TO:

ALLFAST FASTENING SYS.INC

P.O. BOX 3166

CITY OF INDUSTRY, CA 91745-10

| | | | |
|---|---------------|----------------------------|---|
| Customer PO Number 117496-76 | | NW WORK ORDER NO. 12570 | <i>Dave. Baldwin</i> |
| DESCRIPTION .1265 2117 H15 30" 800# STEM | | | AUTHORIZED SIGNATURE QUALITY CONTROL MANAGER |
| CUSTOMER PART NO. | ALLOY 2117 | TEMPER H15 | We hereby certify that the material covered by this report has been inspected in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown on this sheet. |
| NW PART NO. G12651 | | DATE SHIPPED 9/10/2013 | |
| WEIGHT SHIPPED 5,214 | | | |

| LOT NUMBER | # OF TESTS | ULTIMATE | | YIELD | | % ELONGATION | |
|------------|------------|-----------------|-----|-----------------|-----|--------------|--|
| | | STRENGTH K.S.I. | | STRENGTH K.S.I. | | | |
| | | Min | Max | Min | Max | | |
| K851476 | 6 | 32 | 33 | | | | |

COMMENTS:
M-151-4 REV K
QQA-430C
MILL SOURCE KAISER
MADE IN USA
GRAIN SIZE 6 OR FINER

**ALLOY VERIFICATION
HAS BEEN PERFORMED**



grain size: 7.5

| CHEM COMP | ALLOY | SILICON | | IRON | | COPPER | | MANGANESE | | MAGNESIUM | | CHROMIUM | | OTHERS | |
|--------------------|-------|---------|------|------|------|----------|------|-----------|------|-----------|------|----------|------|--------|------|
| | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| | 2117 | | 0.80 | | 0.70 | 2.20 | 3.00 | | 0.20 | 0.20 | 0.50 | | 0.10 | 0.05 | 0.15 |
| | | | | | | | | | | | | | | | |
| | | NICKEL | | ZINC | | TITANIUM | | LEAD | | BISMUTH | | | | | |
| | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| | | | | | 0.25 | | | | | | | | | | |
| ALUMINUM REMAINDER | | | | | | | | | | | | | | | |

KAISER ALUMINUM

FABRICATED PRODUCTS

Best in Class

S303813 ^{AF}92

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Kaiser Aluminum Fabricated Products, LLC
600 Kaiser Drive
Heath, OH 43056-1088
740-522-1151

| | | | | | |
|---|----------------------|---------------------------------|---|-----------------------------------|--------------------|
| CUSTOMER PO NUMBER: FLO-1969 | | CUSTOMER PART NUMBER: 6G37L1 | | PRODUCT DESCRIPTION: ALY-JUMBO | |
| KAISER ORDER NUMBER: 624556266 | LINE ITEM: 1 | SHIP DATE: 08/21/2013 | ALLOY: 2117 | TEMPER: O | |
| WEIGHT SHIPPED: 5255 lbs. | QUANTITY: 23 pcs. | B/L NUMBER: 7670 | DIAM/DAF/THKNS: 0.375 in. | WIDTH: 0.000 in. | LENGTH: 0.0 in. |
| SHIP TO: FLORENCE 1547 HELTON DRIVE FLORENCE, AL 35630 | | | SOLD TO: FLORENCE 1547 HELTON DRIVE FLORENCE, AL 35630 | | |

Test Code: 8000

Actual Physical Properties

| Lot No. | No. Tests | WGU ksi |
|---------|--------------|--------------|
| 851476 | 3 MIN MAX | 22.1 22.5 |

Chemical Composition, WT. % (Aluminum Remainder)

| Lot Cast/Drop ChemID | | Si | Fe | Cu | Mn | Mg | Cr | Zn |
|----------------------------|-------------|------|------|------------|------|--------------|------|------|
| 851476 73-3F2 183514 | Act. | 0.40 | 0.40 | 2.8 | 0.16 | 0.40 | 0.06 | 0.11 |
| Chemical Limits | Min Max | 0.8 | 0.7 | 2.2 3.0 | 0.20 | 0.20 0.50 | 0.10 | 0.25 |
| | Others Each | 0.05 | | Max | | Total | 0.15 | Max |

Specifications

QQA-430

Plant Serial: 32151
Kaiser Order Number: 624556266
Line Item: 1

KAISER
ALUMINUM
FABRICATED PRODUCTS

Kaiser Aluminum Fabricated Products, LLC
600 Kaiser Drive
Heath, OH 43056-1088
740-522-1151

S303813 (AF 92)

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Miscellaneous Notes

Made in USA

Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. Actual (Act) chemical composition is from representative samples taken during the ingot casting process. Independent chemical analysis will vary from these values because of natural variation in the process and testing error. This test report shall not be reproduced, except in full, without the written approval of Kaiser Aluminum. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punished as a felony under federal law. Chemical analysis performed in accordance with ASTM E 1251-11. The Newark facility is AS9100C:2009 approved. The Newark Laboratory is NADCAP approved for chemical testing (OES).

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLP ("Kaiser") hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales order acknowledgement form. Any warranty is limited to that shown on Kaiser's standard general terms and conditions.

Warren Marcucci, Technical Manager

Warren Marcucci

Plant Serial: 32151

Kaiser Order Number: 624556266

Line Item: 1



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO25555

| LINE# | QUANTITY | U/M | PART-NUMBER | CUST REF# | LOT-NUMBER | MANUFACTURER | CCODE | MFR DATE | EXP DATE |
|-------|----------|-----|--------------|-----------|------------|---------------|-------|----------|----------|
| 2 | 200 | EA | MS27039-1-16 | | 65251 | MAC FASTENERS | ORPT4 | | |


Jason Lewis
Vice President of Quality

08/27/14

MAC FASTENERS, INC.
1110 ENTERPRISE
OTTAWA, KANSAS 66067

**CERTIFICATE OF CONFORMANCE
AND
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: 0LFV64

PART NUMBER: MS27039-1-16

REV: 3

LOT NUMBER: 65251

MANUFACTURED QUANTITY: 150,000

MILL HEAT NUMBER: 8172012

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

MERCURY FREE CERTIFICATION

MacFasteners Inc. certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in accordance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

DATE: 07/24/13


QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Registered Company- SAI GLOBAL - 0058029

MAC FASTENERS, INC.
1110 EAST ENTERPRISE
OTTAWA, KS 66067

CHEMICAL & PHYSICAL TEST REPORT

| | | | |
|------------------------------------|----------------------------|--------------------------------|-------------------------------------|
| CUSTOMER B/E AEROSPACE | PO NUMBER 0LFV64 | MFG QUANTITY 150,000 | DATE 07/24/13 |
| PART NUMBER MS27039-1-16 | REV 3 | LOT NO 65251 | PROCUREMENT SPEC NASM7839 |

| MATERIAL | | | | MATERIAL SPECIFICATION | | | | MILL HEAT NUMBER | | | SUPPLIER | | |
|-----------|-----|-------|------|------------------------|-----|-----|-----|------------------|------|---|-----------|-------|----|
| TYPE 8740 | | | | MIL-S-6049/AMS6322 | | | | 8172012 | | | JOHNSTOWN | | |
| C | Si | Mn | P | S | Cu | Ni | Cr | Mo | V | B | Fe | Al | Ti |
| .42 | .25 | .87 | .008 | .013 | .07 | .43 | .49 | .21 | .003 | | | .031 | |
| | Co | N | Bi | Pb | Mg | Zn | | Nb | Sn | | | Other | |
| | | .0060 | | | | | | | .005 | | | | |

MECHANICAL TEST RESULTS - TESTING PER NASM1312

| ULTIMATE TENSILE STRENGTH POUNDS | |
|-------------------------------------|-------|
| 3,070 | 3,080 |
| 3,070 | 3,060 |
| 3,070 | 3,060 |
| 3,080 | 3,050 |
| 3,050 | 3,070 |
| 3,070 | |
| 3,070 | |
| 3,060 | |
| MIN. REQ. | 2,500 |

| DOUBLE SHEAR STRENGTH POUNDS / PSI | |
|---------------------------------------|-------|
| 4,800 | 4,790 |
| 4,790 | 4,810 |
| 4,810 | 4,810 |
| 4,780 | 4,820 |
| 4,800 | 4,800 |
| 4,800 | |
| 4,810 | |
| 4,780 | |
| MIN. REQ. | 4,250 |

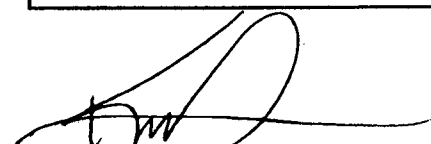
| HARDNESS | |
|--------------------|-------------|
| ROCKWELL "C" SCALE | |
| REQ. | 26 - 32 HRC |
| SAMPLE SIZE | 13 |
| ACTUAL RESULTS | |
| 26 - 31 HRC | |

| METALLURGICAL EXAMINATION | | | |
|---|-------------------------------------|----------------|-------------------------------------|
| Discontinuities | <input checked="" type="checkbox"/> | Carb/Decarb | <input checked="" type="checkbox"/> |
| Grain Flow | <input checked="" type="checkbox"/> | Microstructure | <input checked="" type="checkbox"/> |
| Grain Size | <input checked="" type="checkbox"/> | Appearance | <input checked="" type="checkbox"/> |
| Thread Inspection System <input type="checkbox"/> 21 System <input checked="" type="checkbox"/> 22 System <input type="checkbox"/> 23 FED-STD-H28/20 - ASME B1.3 | | | |

| NDT/ ADDITIONAL TESTS | |
|---|-------------------------------------|
| Magnetic Particle Inspection per ASTM E1444 | <input type="checkbox"/> |
| Liquid Penetrant Inspection per ASTM E1417 | <input type="checkbox"/> |
| Recess Torque Test | <input type="checkbox"/> |
| Head Marking | <input checked="" type="checkbox"/> |
| Magnetic Permeability | <input type="checkbox"/> |

TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.


Quality Assurance Representative

AS9100C REGISTERED
SAI GLOBAL - 0058029

MAC FASTENERS, INC.
1110 ENTERPRISE
OTTAWA, KANSAS 66067

HEAT TREAT CERTIFICATION

CUSTOMER: B/E AEROSPACE

DATE: 07/24/13

PO NUMBER: 0LFV64

MANUFACTURED QUANTITY: 150,000

PROCESSOR:

PAULO PRODUCTS KCMO - NADCAP ID 4679

LOT NUMBER: 65251

MATERIAL: TYPE 8740

PART NUMBER: MS27039-1-16

REVISION: 3

REQUIRED HARDNESS: 26 - 32 HRC

SAMPLE SIZE: 13

HARDNESS: 26 - 31 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

Notes:

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.


QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Registered Company - SAI GLOBAL - 0058029

COMMERCIAL PLATING COMPANY

TC-4500 XRF ST

Wed Mar 19 01:09:04 1997

COMMERCIAL PLATING CERTIFICATION AND TEST RESULTS

This is to certify that the order described below was plated to comply with the agreed upon requirements of the requested specification.

DATE: 07/17/13

CUSTOMER: MAC FASTENERS

PART NUMBER: MS27039-1-16

DESCRIPTION: SCREW

ORDER NUMBER: 88022

LOT NUMBER: 65251

TOTAL WEIGHT: 1306 LB

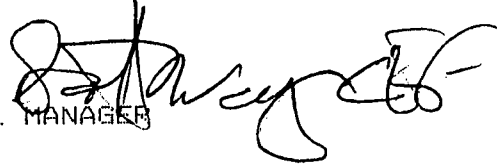
PIECES PLATE TO GAUGE: Y

SPECIFICATION: SAE AMS QQ-P-416C, TYPE II, CLASS 2

REQUIREMENTS: 0.0003 CAD MIN AND YELLOW CHROMATE

AUTHORIZED SIGNATURE:

TITLE: QUALITY CONTROL MANAGER





Johnstown Wire Technologies

124 Laurel Ave,
Johnstown, PA 15906
Phone: 814-532-5680
Fax: 814-532-5684

WORK ORDER
683779

TEST REPORT
LOT NUMBER
K-8172012
SALES ORDER / RLS
001179 / 1

SOLD TO

Mac Fasteners, Inc.
C/O TD Logistics Inc.
14505 W 100th Street
Lenexa, KS 66215
USA



| | | | | | | | | | | | | |
|--|-------------------------|--------------------------|--------------|-----------------------|-----------------------------|-----------|-----------|-----------|-----------|-----------|----------|----------|
| CUSTOMER P.O. 50516 | CUSTOMER PART | QUANTITY 24,038 LBS | COILS 12 | LADING NO 00117025 | SHIPMENT DATE 04/26/2013 | | | | | | | |
| SPECIFICATION MacFast-87186 AMS2301; AMS6322; AMS-S-6049A; MIL-S-6049A 8740 DFARS Defense Federal Acquisition Regulation Supplement Silicon Killed Fine Grain Aircraft Quality/Cold Heading Quality Drawn From Annealed Rod Spheroidize Annealed In Process Heavy Phos & Light Lube Ctd Size: .1865 +.001 -.000 | | | | | | | | | | | | |
| CERTIFICATION REQUIREMENTS | | | | | | | | | | | | |
| Chemical | | | | | | | | | | | | |
| C .42 | Mn .87 | P .008 | S .013 | Si .25 | Al .031 | Ni .43 | Cr .49 | Mo .21 | Cu .07 | V .003 | | |
| Cb .001 | Ti ??????? | N .0060 | Sn .005 | | | | | | | | | |
| Physical | | | | | | | | | | | | |
| AMS 2301 0000 | J1 57 | J10 37 | J11 35 | J12 34 | J2 56 | J3 55 | J5 53 | J4 55 | J6 50 | J7 46 | J8 42 | J9 39 |
| MacroClean E-381 111 | | | | | | | | | | | | |
| Mechanical | | | | | | | | | | | | |
| TEST | UNITS | HIGH | LOW | AVERAGE | | | | | | | | |
| Tensile Str | Lbs/SqIn | 86000 | 82000 | 84000 | | | | | | | | |
| RA Per Cent | Percent | 75.7 | 71.3 | 73.2 | | | | | | | | |
| Decarb FFD | Inches | .000 | .000 | .000 | | | | | | | | |
| Surface def. depth | Inches | .001 | .001 | .001 | | | | | | | | |
| Rod / Melt Source | | | | | | | | | | | | |
| Rod Source Republic | Melt Source Republic | Country of Origin USA | Nafta Yes | | | | | | | | | |
| End of Certification | | | | | | | | | | | | |

I certify that the results are a true and correct copy of the records prepared and maintained by JOHNSTOWN WIRE TECHNOLOGIES in compliance with the requirements of the cited specification. Chemistry is as reported by the rod / bar supplier and is not in JWT A2LA accreditation. This test report cannot be reproduced or distributed except in full without the written permission of JOHNSTOWN WIRE TECHNOLOGIES. The test results certified herein relate only to the items tested.

Daniel J. Mallik
Daniel J. Mallik Director of Quality Assurance



CERTIFICATE OF TESTS

1007 EAST 28TH ST.
PHONE: 330-838-8389JOHNSTOWN, OH 44053
FAX: 330-838-8493

REPUBLIC STEEL

2/27/2013
2:38:00 PM
PAGE 1 OF 2PURCHASE ORD: 83625
PART NUMBER: FXT40AA-.3125
ORDER NUMBER: 1539858 - 01
HEAT: 8172012PURCHASE ORDER DATE: 12/21/2012
ACCOUNT NUMBER: 5672-1920-01
SCHEDULE: 0354-93
REVISION: 1

===== CHARGE ADDRESS ===== SHIP TO =====

JOHNSTOWN WIRE TECHNOLOGIES
124 LAUREL AVE
JOHNSTOWN, PA 15906JOHNSTOWN WIRE TECHNOLOGIES
EDWARD ZAPOLA
124 LAUREL AVE
TRUCK STPO 9 ROD DOCK
JOHNSTOWN, PA 15904

MATERIAL DESCRIPTION

HOT ROLLED STEEL COILS ALLOY AMS 2301K JOHNSTOWN WIRE SPEC RW-100 REVISION DTD 04/21/04 EXC PARA
10.3 AMS 6322N EXC HARD JOHNSTOWN WIRE SPEC RW-005 REVISION DTD 12/31/00 EXC SURFACE DEFECTS
JOHNSTOWN WIRE SPEC PART NO. FXT40AA REVISION DTD 12/31/00 MIL S 6049A & AMD 1 COND B-1 EXC MARK &
UT WAIVED RF-AISI-8740-H FINE GRAIN VACUUM DEGASSED AIRCRAFT QUALITY FIXED PRACTICE QUALITY
RESTRICTED CHEMISTRY RESTRICTED MAX INCIDENTAL ELEMENTS
SIZE: RDS .3125 DIAM X COIL
RDS 7.9375MM DIAM X COIL

LADLE CHEMISTRY %

| C | MN | P | S | SI | CU | NI | CR |
|-------|------|-------|-------|--------|-------|--------|------|
| 0.42 | 0.87 | 0.008 | 0.013 | 0.25 | 0.07 | 0.43 | 0.49 |
| V | MO | SN | AL | B | CB | N | |
| 0.003 | 0.21 | 0.005 | 0.031 | 0.0000 | 0.001 | 0.0060 | |

CALCULATED TESTS

REDUCTION RATIO 1,690.4 TO 1

AUSTENITIC GRAIN SIZE 5 OR FINER BASED ON A TOTAL ALUMINUM CONTENT EQUAL TO OR GREATER THAN .020% PER ASTM
A29.

SEMI - FINISHED RESULTS

JOMINY HARDNESS TEST SAE J406/ASTM A255
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32
57 56 55 55 53 50 46 42 39 37 35 34 33 32 31 31 30 29 29 28 27 28 27 27MACRO ETCH TEST ASTM E381/MIL STD 430
ETCHANT: HCL TEMPERATURE: 170
S R C
AVG 1 1 1MAGNETIC PARTICLE TEST AMS 2301 AMS2304 AMS2300
IND AVG IND AVG
FREQ FREQ SEV SEV
PCB 03 0 0 0 0

FINISHED SIZE RESULTS

DECARBURIZATION TEST SAR J419/ASTM E1077/JIS G0558
ETCHANT = NITAL MAGNIFICATION = 100X

| | SPIKE | COMPLETE | TOTAL |
|----------|--------|----------|--------|
| | INCHES | INCHES | INCHES |
| PCB 2394 | 0.002 | 0 | 0.002 |

G. KRUTH
DIRECTOR QUALITY ASSURANCE

BY DEBORAH STOKES



CERTIFICATE OF TESTS

1807 EAST 28TH ST.
PHONE: 330-438-8580LORAIN, OH 44053
FAX: 330-438-8495

REPUBLIC STEEL

2/27/2013
2:38:00 PM
PAGE 2 OF 2PURCHASE ORD: 83625
PART NUMBER: FKT40AA-.3125
ORDER NUMBER: 1539858 - 01
HEAT: 8172012PURCHASE ORDER DATE: 12/21/2012
ACCOUNT NUMBER: 5672-1920-01
SCHEDULE: 0354-93
REVISION: 1

CAPABLE OF SEAM DEPTH 1/8 MAX DIAMETER NOT LESS THAN .005 MAX

NOTES

CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS: ASTM E415, LBL10129, LBL10130, ASTM E1019, LBL10158, LBL10114, AND ASTM E1085, LBL10184, LBL10188.

REPUBLIC STEEL HEREBY CERTIFIES THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND TESTED IN

NOTES (CONTINUED)

ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FED STATUTES TITLE 18 CHAPTER 47.

THE MATERIAL HAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

NO WELD OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

THE RESULTS REPORTED RELATE ONLY TO THE ITEMS TESTED.

SOURCE INFORMATION

MELT SOURCE: CANTON CAST ROLL MELT COUNTRY: U.S.A HOT ROLL SOURCE: LORAIN 9/10, U.S.A
MELT METHOD: EF BLOOM RED. RATIO: 1690.4

END OF DATA

CC

END OF DATA

WITH SHIPMENT 1 COPY PRINTED AT SHIPPING AREA

FAX SHIP TO 1 COPY

ATTENTION EDWARD ZAPOLA

1-814-532-5684

FILE 1 COPY

G. KRUTH
DIRECTOR QUALITY ASSURANCE

BY DEBORAH STOKES